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(54) ULTRASONIC ENDOSCOPE SYSTEM

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(57) Abstract

PROBLEM TO BE SOLVED: To effectively apply the method of imaging the elasticity information of an object to be measured and using it for diagnosis to an ultrasonic endoscope.

SOLUTION: The ultrasonic endoscope 1 emits an ultrasonic wave by an ultrasonic transducer formed at the tip, receives the reflection signal from a living body, and applies a displacement to the biological tissue. An ultrasonic observation device 2 gains a hardness image by an operation using the reflection signal from the biological tissue which is displaced, and displays it on a monitor 5. Accordingly, the hardness of the biological tissue can be measured by use of the ultrasonic endoscope and used for diagnosis.

